

Post 9/11 and Katrina Changes in Disaster Response

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Timeline of NIEHS WTC-Related Activities

September 2001

Provided immediate awards to grantees

- conduct personal exposure assessments
- collect and analyze dust and air samples
- conduct respiratory health study
- initiate epidemiology studies
- provide exposure information and fact sheets to communities
- develop a physician's advisory regarding WTC-related clinical conditions

April 2002 & April 2003

Congress provided NIEHS with special appropriation:

- exposure assessment
- clinical and epidemiology studies
- community outreach





Examples of Early NIEHS WTC Activities

- Sept 2001 Collaboration between NYU, UMDNJ, EPA-NERL Dust samples collected at over a dozen locations surrounding
 WTC disaster area and bulk samples of settled dust/smoke
 analyzed
- Sept 2001 Collaboration between Mount Sinai and NYCDH.
 Provided industrial hygiene and clinical expertise and developed fact sheets regarding health concerns
- Oct 2001 Collaboration between Johns Hopkins, Columbia, International Brotherhood of Teamsters, NYC Teamsters Locals 282 and 831. Personal exposure assessments and area monitoring
- Oct 2001 Collaboration between Columbia, local unions, council members and community boards. Conducted community forum for residents of Harlem, East Harlem and Washington Heights
- Nov 2001 Collaboration on NYU and EPA-NERL. Collect and analyze indoor dust samples south of Ground Zero

NIEHS Update

- WETP Program Background
- 9/11 Training Response
- NRP WSH Annex
- Katrina Training Response Activities

Safely Cleaning Up Contaminated Communities

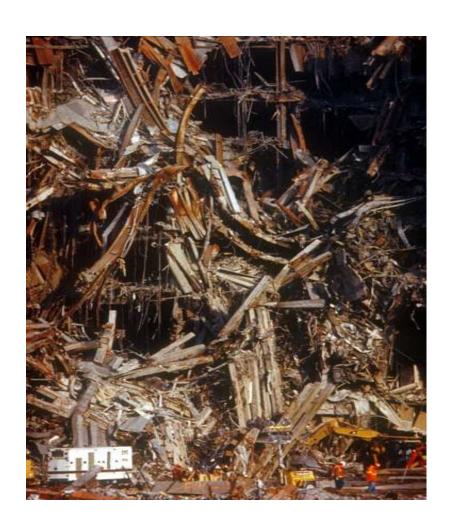


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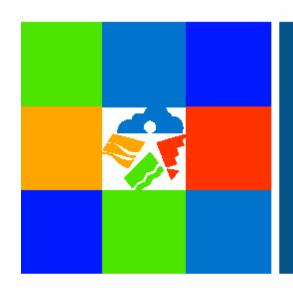
NIEHS 9/11 Worker Response

Immediate and sustained supplemental funding to support World Trade Center training response efforts:

- On-site training
- Provision and fit-testing of respirators
- Worker exposure monitoring
- Responder training course
- Consultation on the site safety plan







LEARNING FROM DISASTERS:

WEAPONS OF MASS DESTRUCTION
PREPAREDNESS THROUGH WORKER TRAINING.

- Report of an Expert Workshop
- Sponsored by:
- Worker Education and Training Program,
- National Institute of Environmental Health Sciences
- Held:
- April 25-26, 2002 Nashville, TN

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Training must be continuous

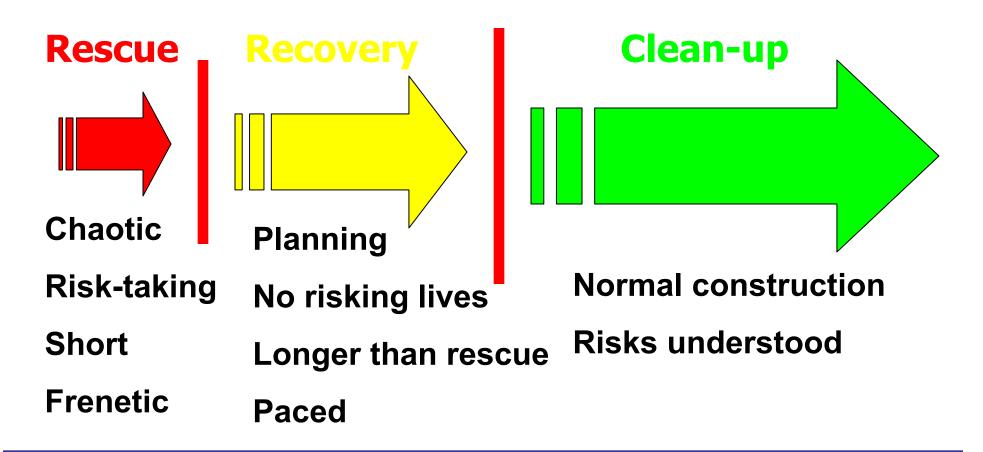
- The scientific/medical/technical aspects of disaster response are rapidly evolving.
- Training needs to be developed in such a manner that it is kept "evergreen."
- Develop training curricula that establish a mechanism for peer review of the materials. (Currently have no standards on many key points.)

NIEHS WSH Training Annex

- Provides training assistance through FEMA-OSHA during national disasters
 - Instructional staff
 - Curriculum development experts
 - Subject matter experts
 - Training facility
- Provides technical assistance
 - Respirator fit testing
 - Distribution of PPE

Extending rescue extends risk for response workers

Phases of Response: Impact on Safety



Working Through ICS

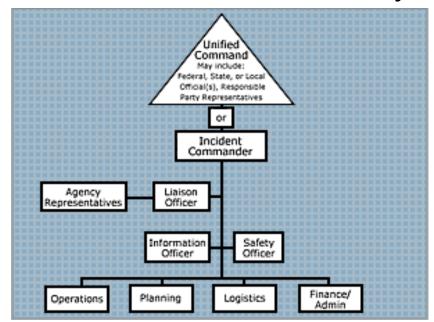


NIEHS – OSHA Katrina Response Initiative



Other Protective Measures

Follow the Incident Command System



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Katrina Field Training



Context for Disaster Response

- Plan for a chain of events scenario.
- Can not predict with high degree of confidence: When, where, how, and duration. So...

Must plan for flexibility.

 Need immediate access to protocol for response and mechanism of coordination.

Disaster Planning Flexibility

- Plan for check-points/assessment, along the way after disaster.
- Plan alternate approaches (more than one way to get the job done).
- Plan national networking along with use of local response.
- Need both generalists and access to specialists.
- Plan for Stress and Chaos!

Katrina Training Lessons Learned

- Early activation of Worker Safety & Health Annex to provide S&H resources ASAP
- Explore ways to cover state and locals and provide Worker S&H Annex services to them
- Community health issues quickly merge with worker occupational training issues
- Preparedness training prior to deployment
 - Situational awareness
- Consensus for training topics (with qualifications for disaster workers)